ABSTRACT OF THE DISCLOSURE

A method of extracting oestrogens, conjugated estrogens, equine gonadotropin and equine follicle stimulant from pregnant mares urine which includes the steps of contacting the urine with dispersed particles of adsorber materials of a particle size above 200 microns and subsequently removing the species by washing the adsorber materials in a buffered aqueous solution of pH between 7.5 and 9.5. The compounds are extracted in situ on the mare using an apparatus which consists of a urine holding vessel suspended beneath the belly of the mare and a urine collection device attached to the perineurn of the mare and communicating with the holding vessel in which the urine collection device and/or the holding vessel incorporates a removable urine permeable container of an adsorbent material for said chemical species. Alternatively the holding container can contain a water immiscible solvent such as hexanol for the in situ extraction of estrogens. An initial filter is incorporated into the urine collection device upstream of the adsorber container. The filter removes mucous and other viscous component of the urine. The system is also applicable to cattle.